

23

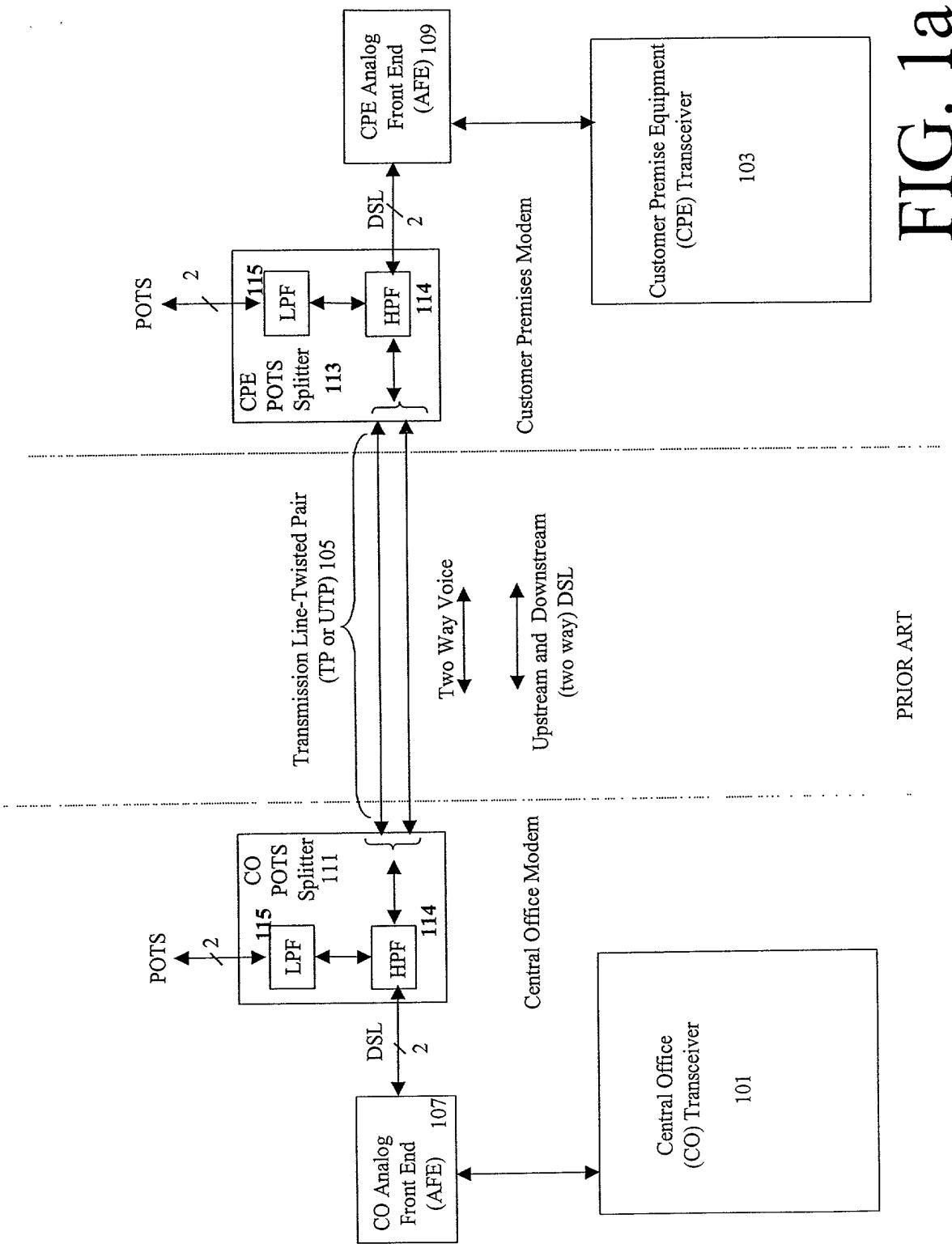


FIG. 1a

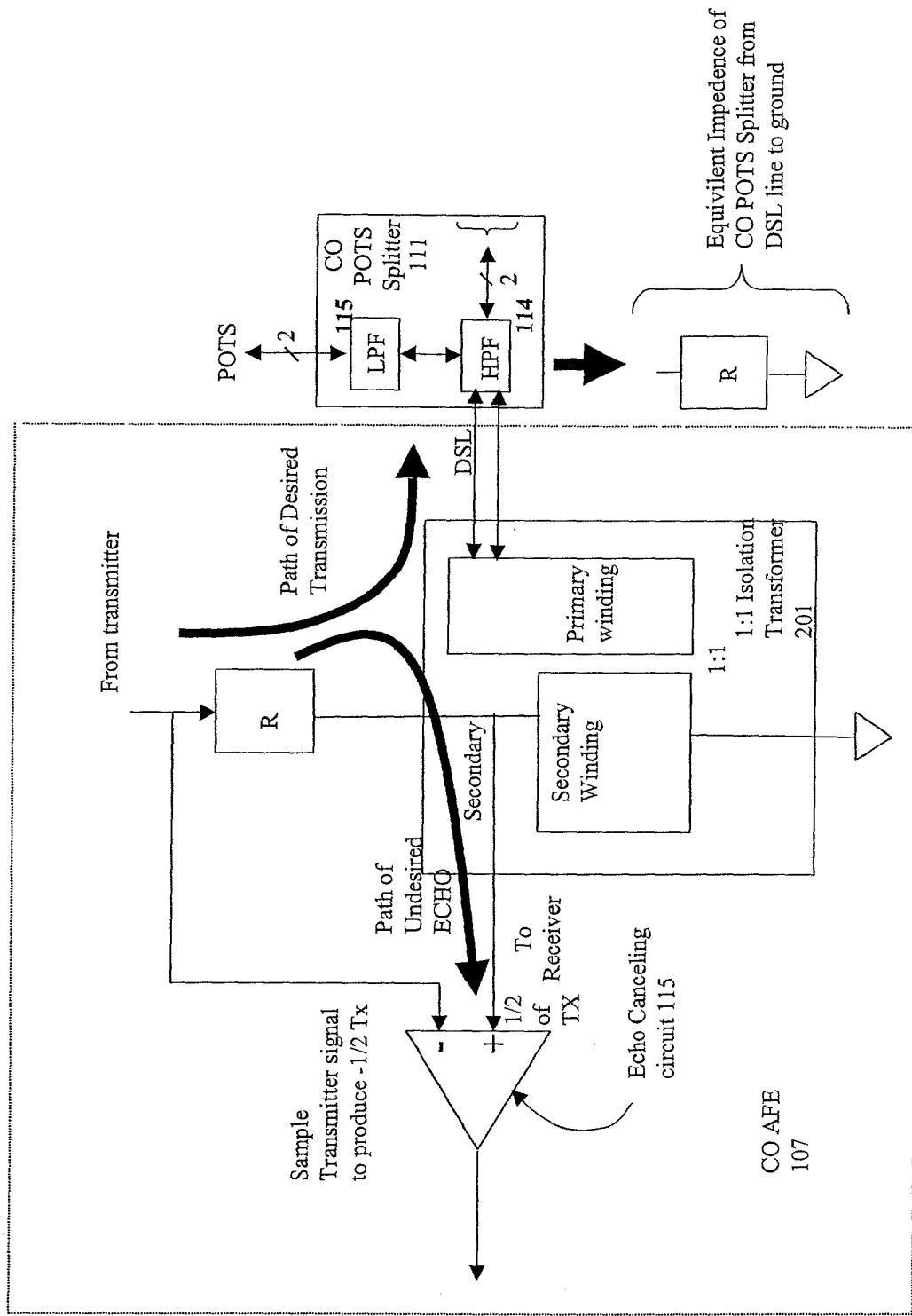


FIG. 1b

# Ballanced CO AFE PRIOR ART

Application No. 09/901,558  
 Inventor(s): Raphael Rahamin  
 Title: SINGLE ENDED ANALOG FRONT END  
 Sheet 3 of 17

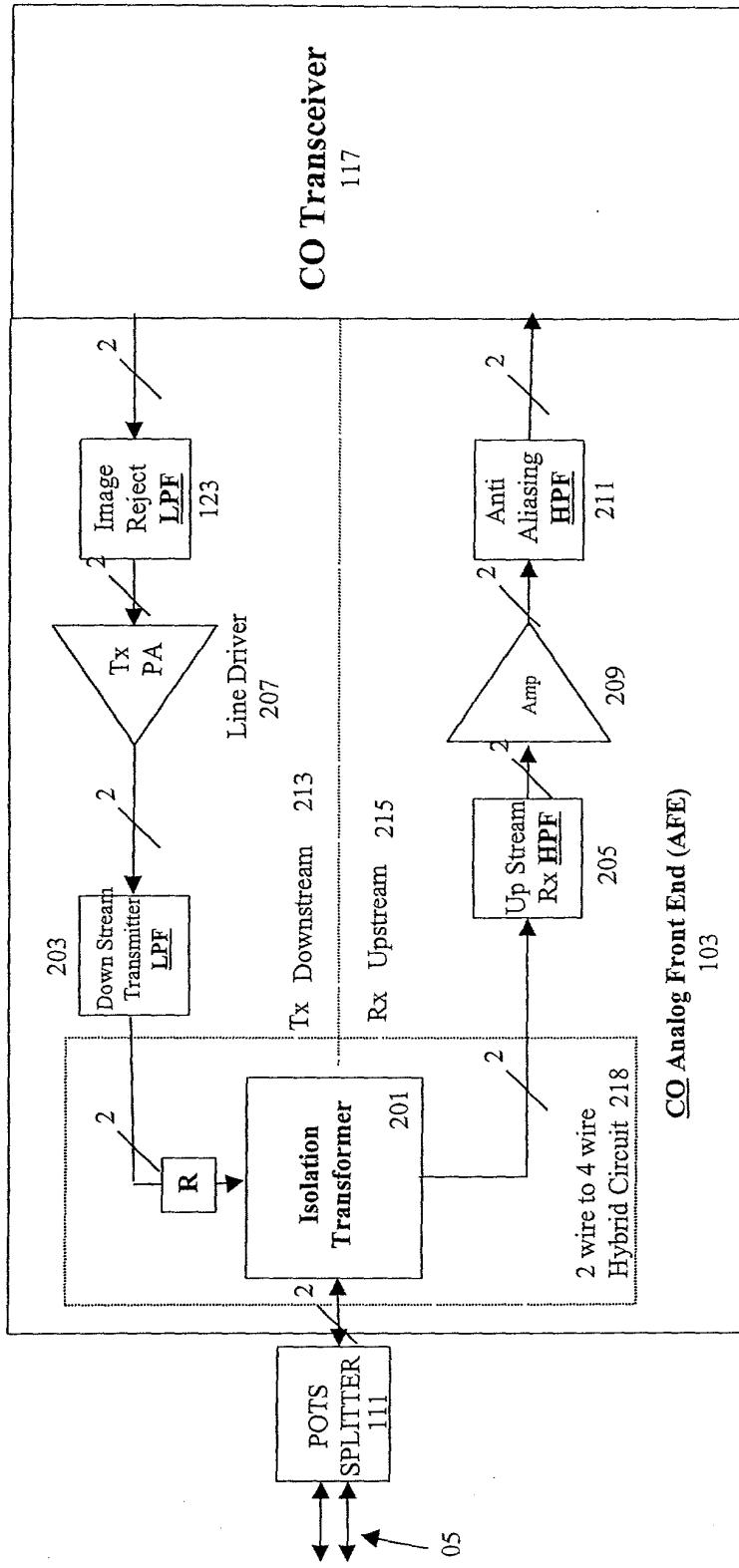
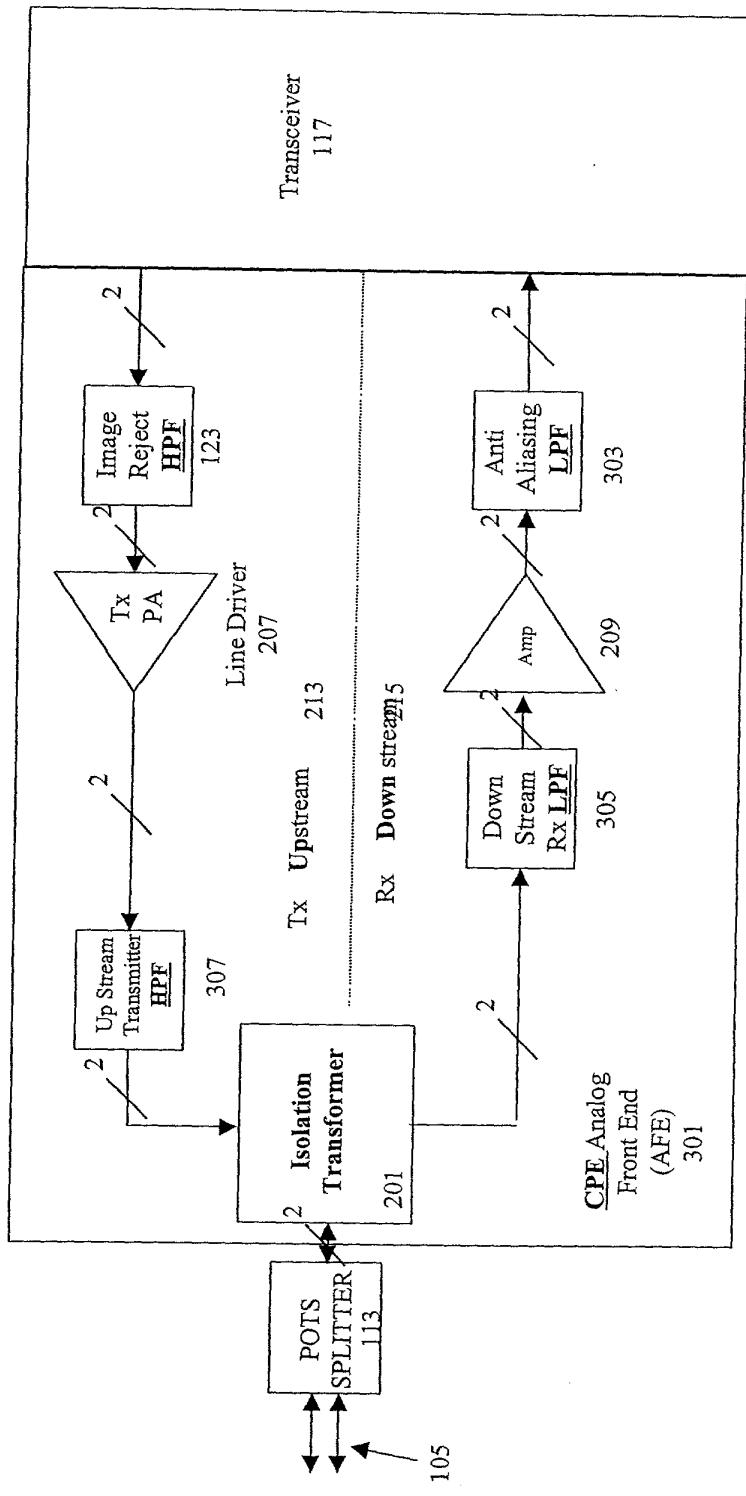


FIG. 2

xDSL CARD for CO

## Ballanced CPE AFE PRIOR ART



xDSL CARD for CPE

FIG. 3

CO Modem 400

20 2' CO TEC "G" ST T CO G S 0

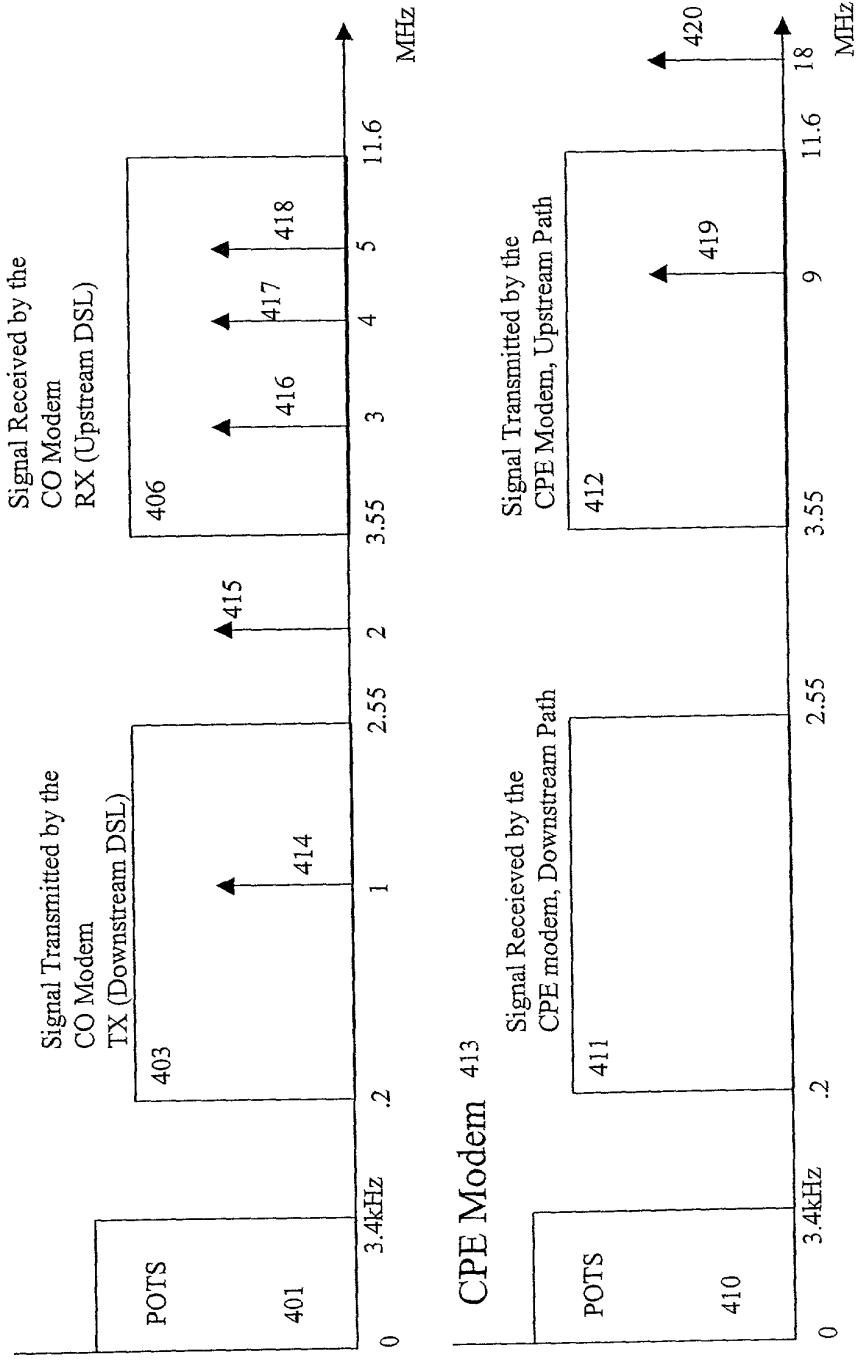


FIG. 4

Single Ended CO AFE

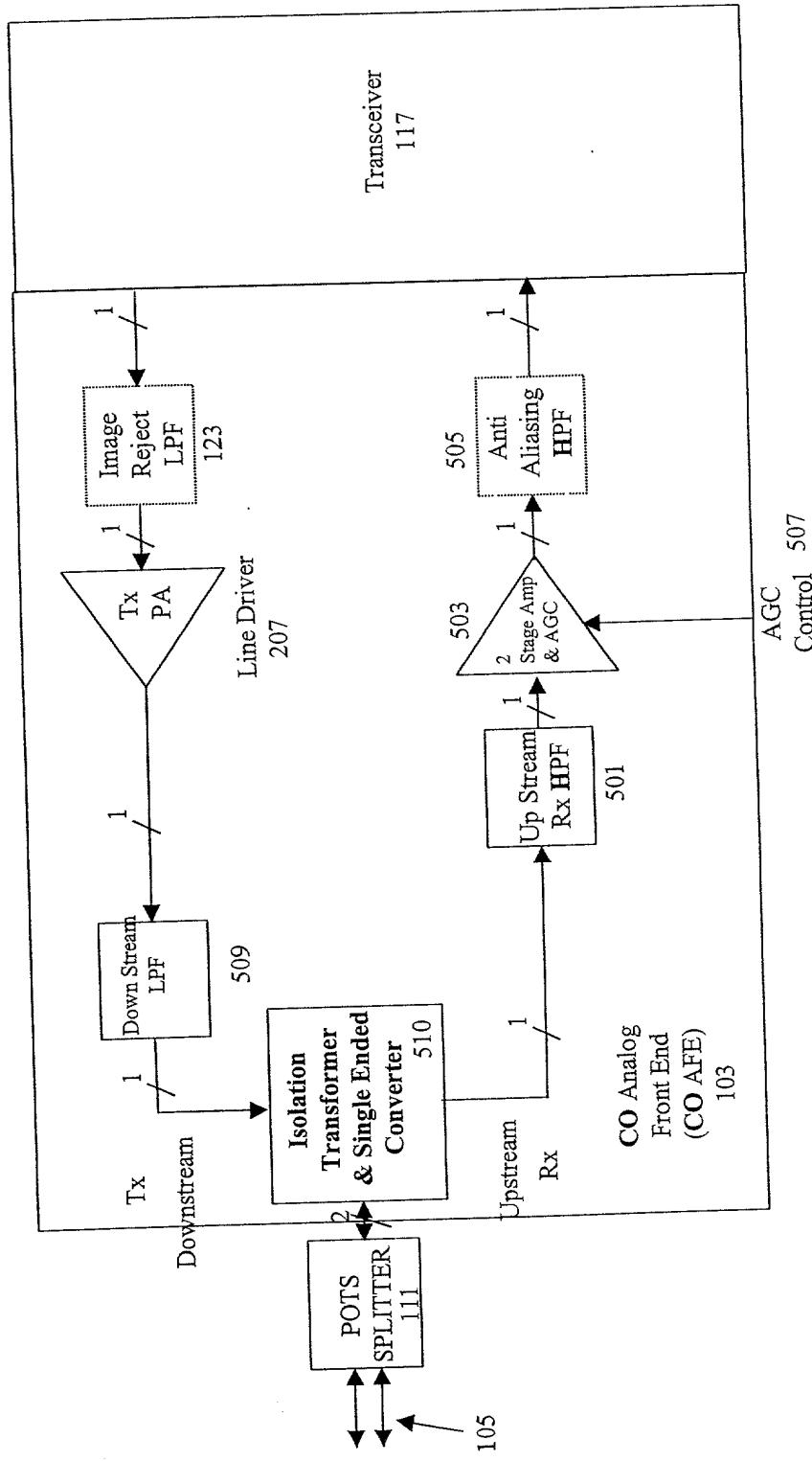
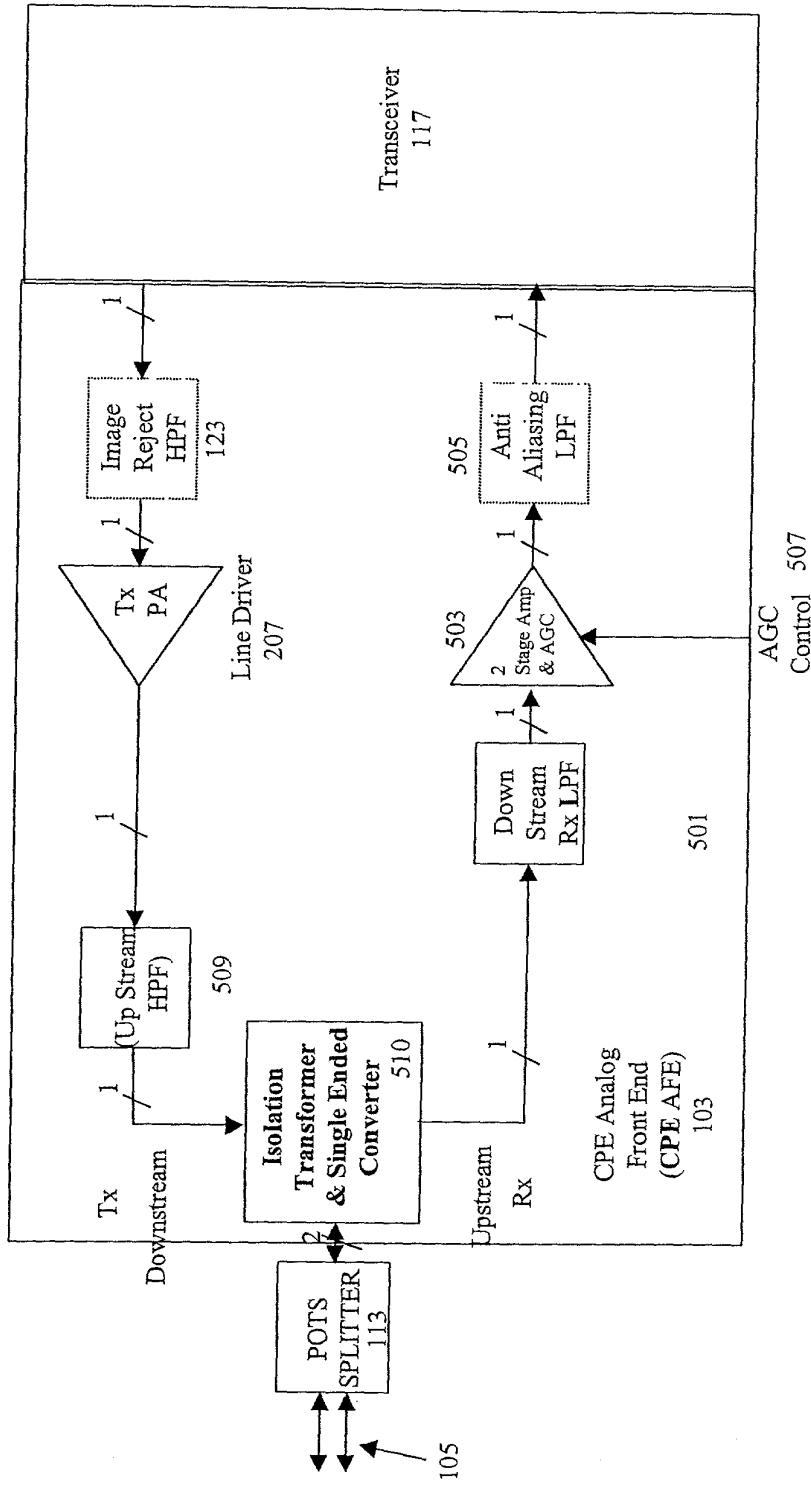


FIG. 5a

xDSL CARD for CO

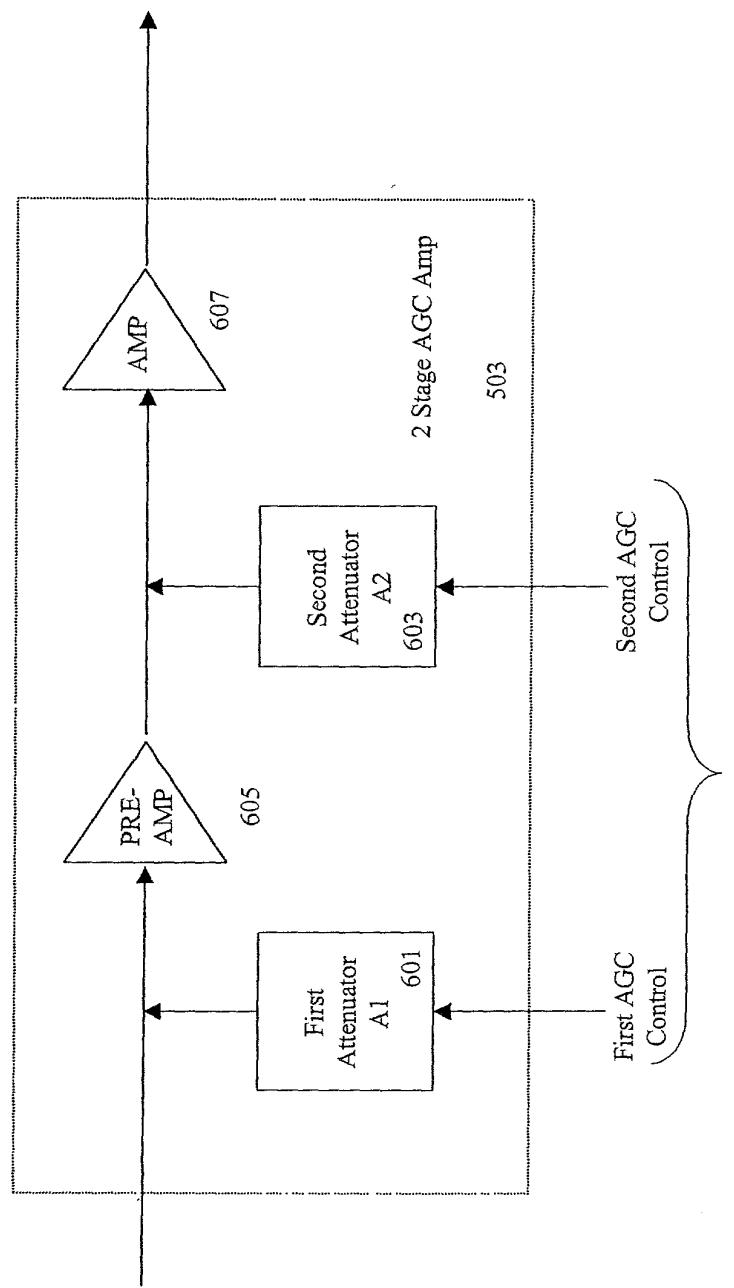
## Single Ended CPE AFE



xDSL CARD for CPE

FIG. 5b

FIG. 6



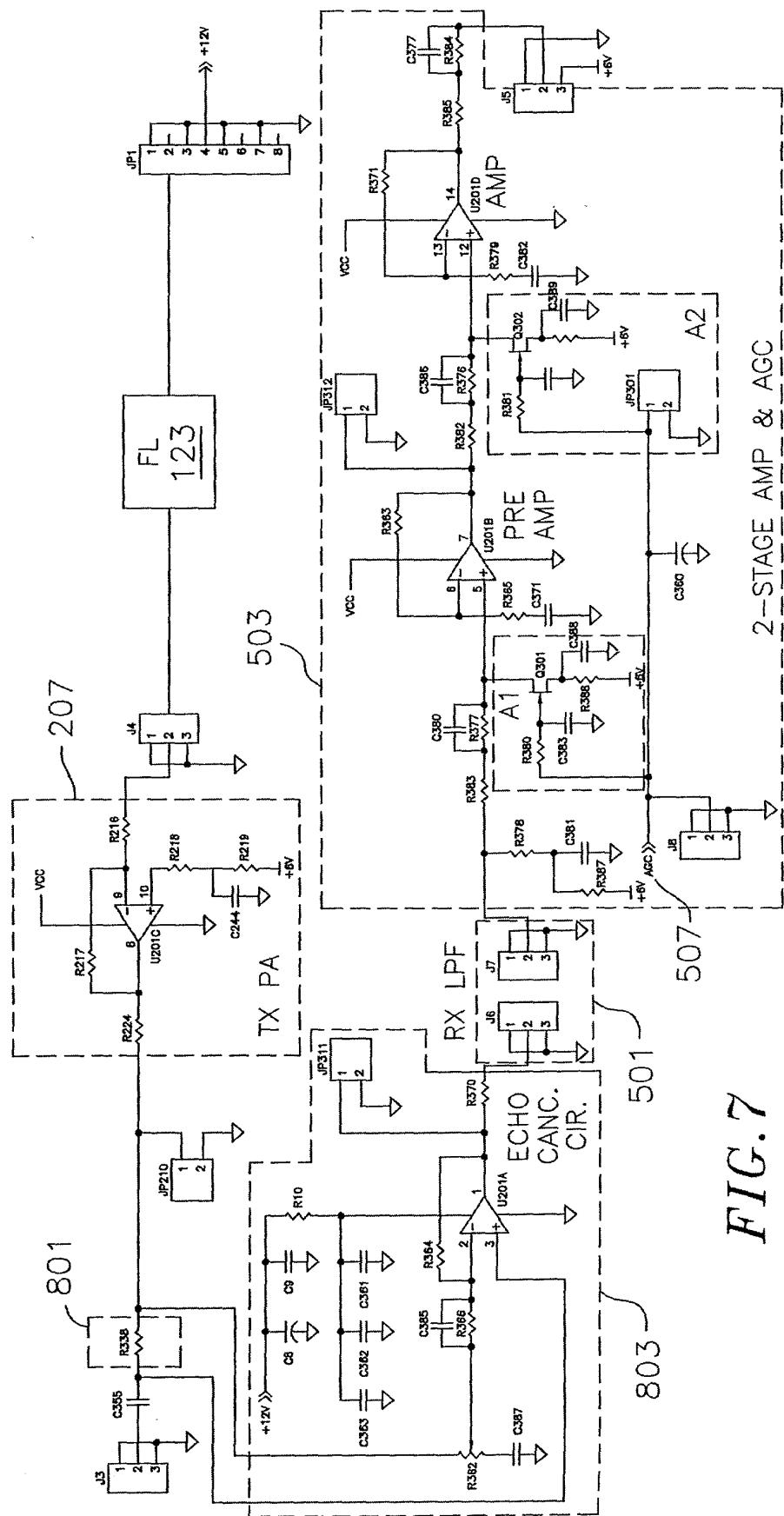


FIG. 7

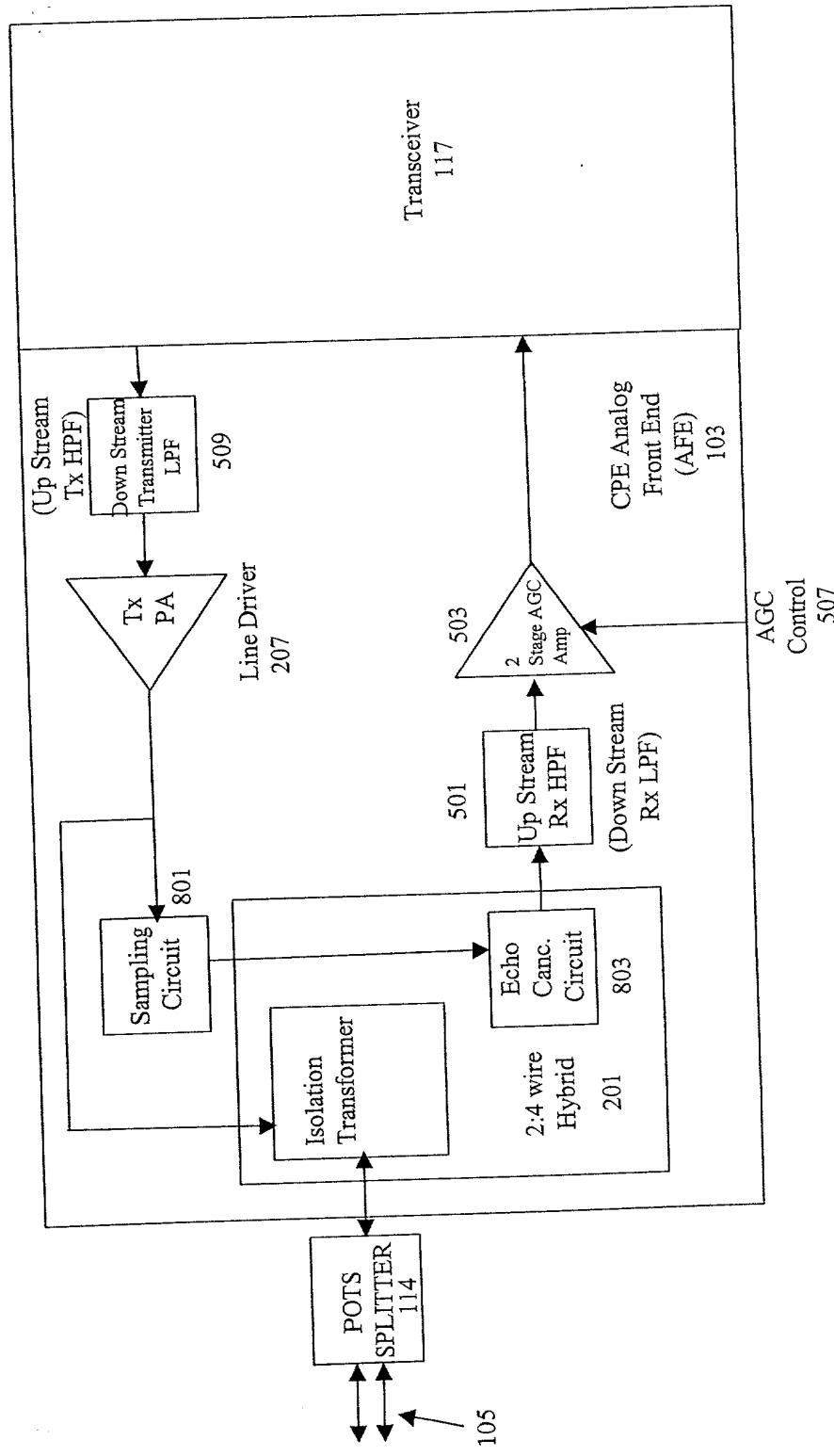


FIG. 8

xDSL CARD for CO (CPE)

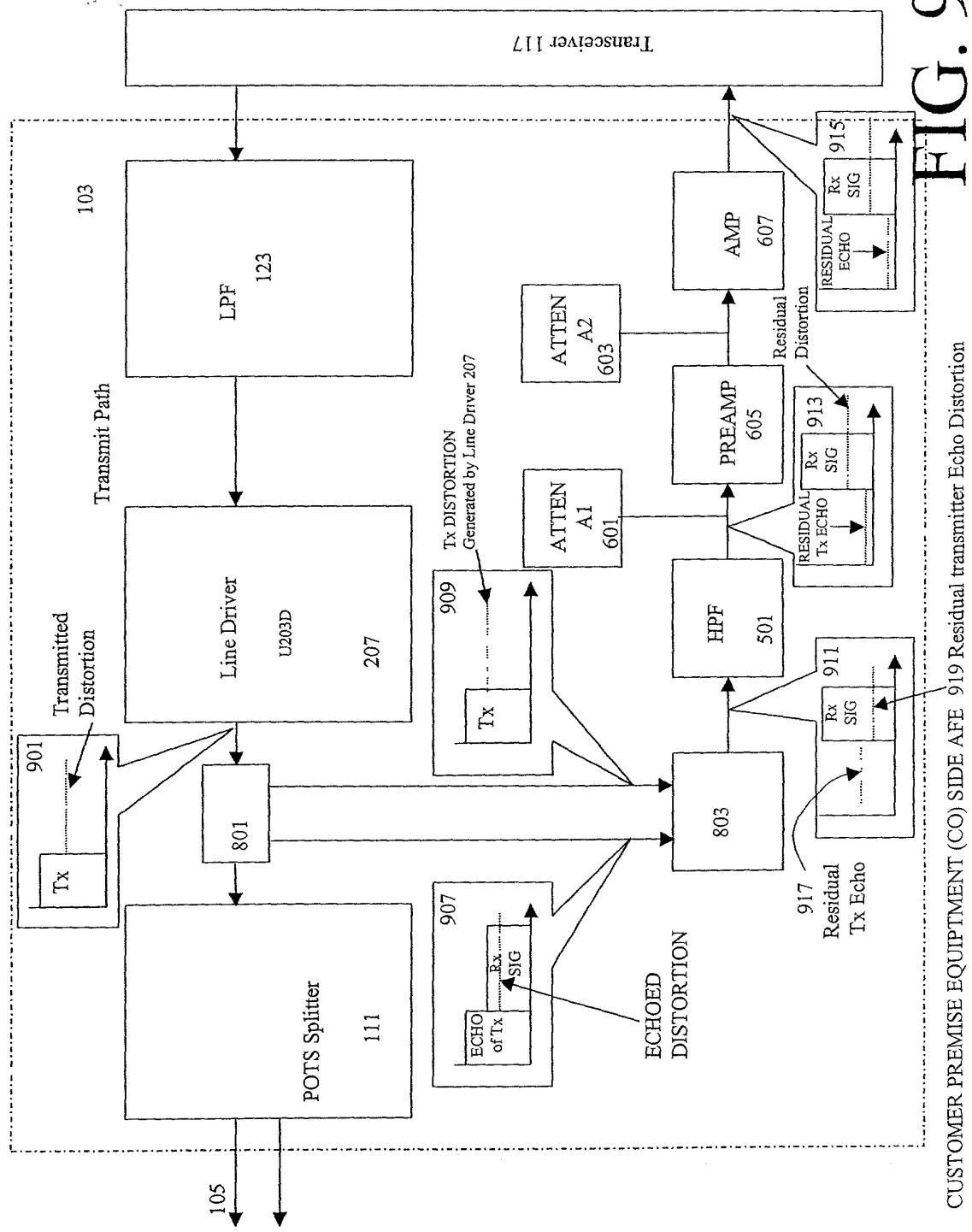


FIG. 9

CUSTOMER PREMISE EQUIPMENT (CO) SIDE AFE 919 Residual transmitter Echo Distortion

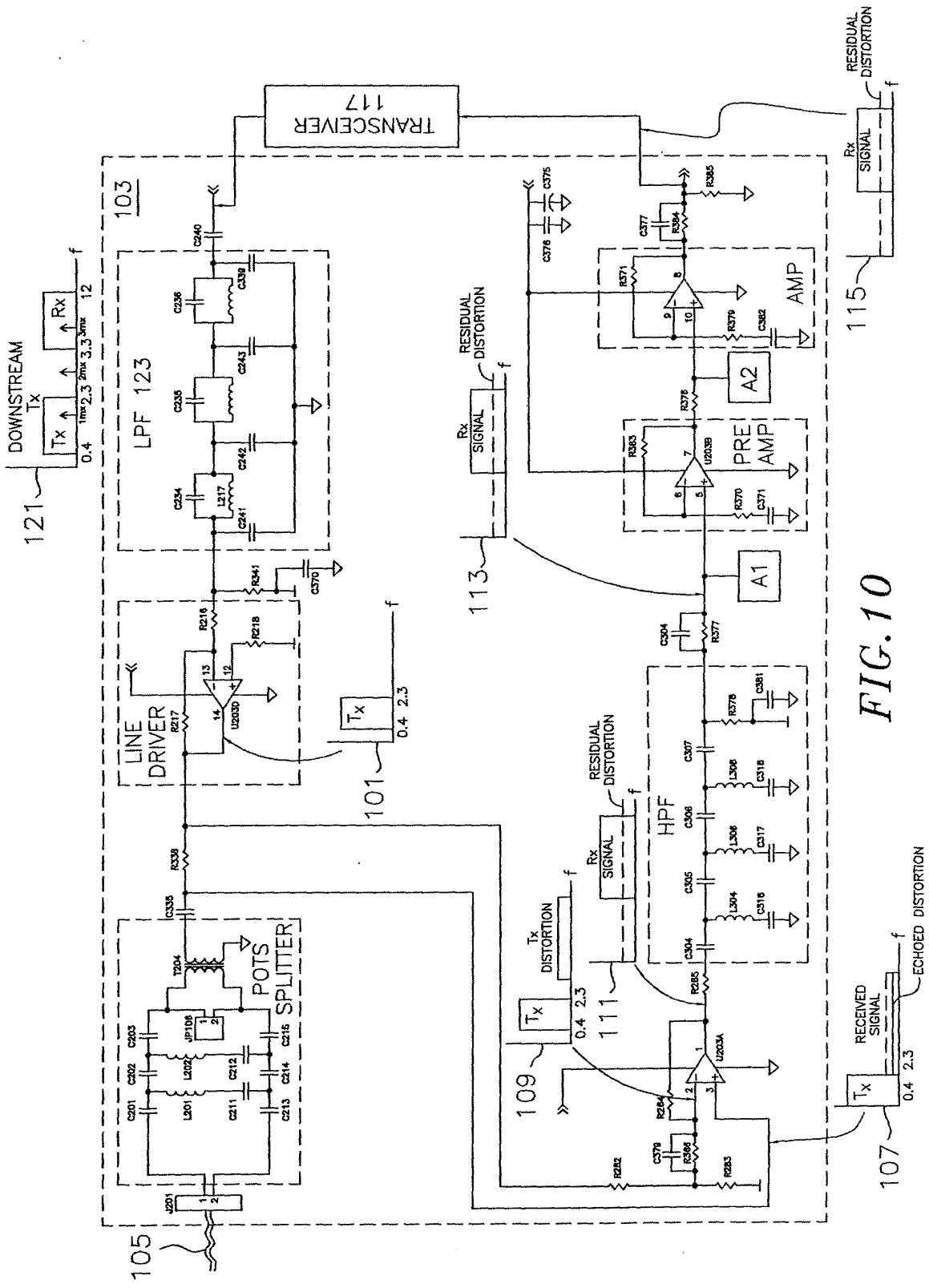


FIG. 10

# LIGHTNING INSENSITIVE AFE (BPF) EMBODIMENT

Transceiver  
117

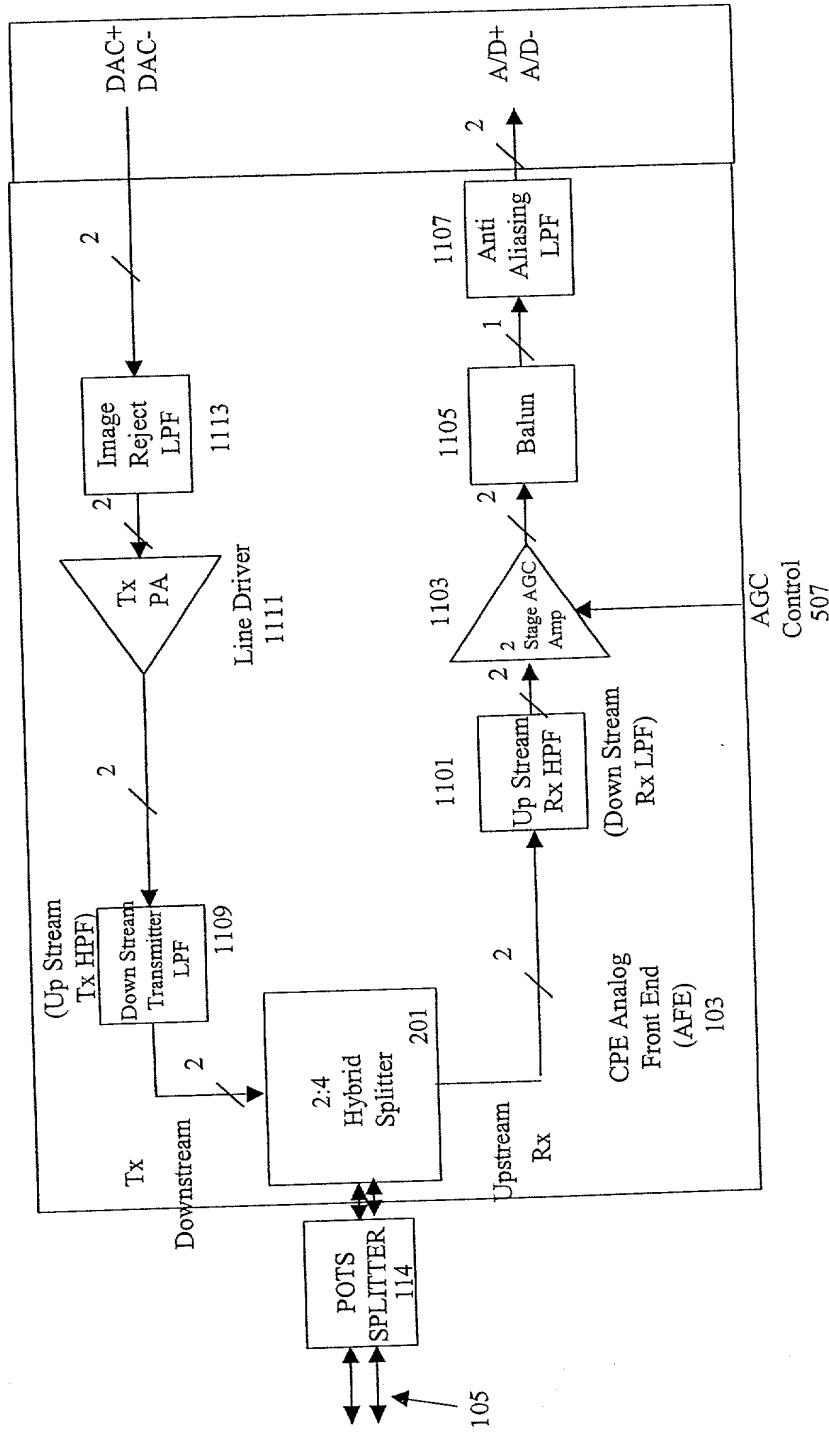


FIG. 11

lightning Insensitive Version

xDSL CARD for CO (CPE)

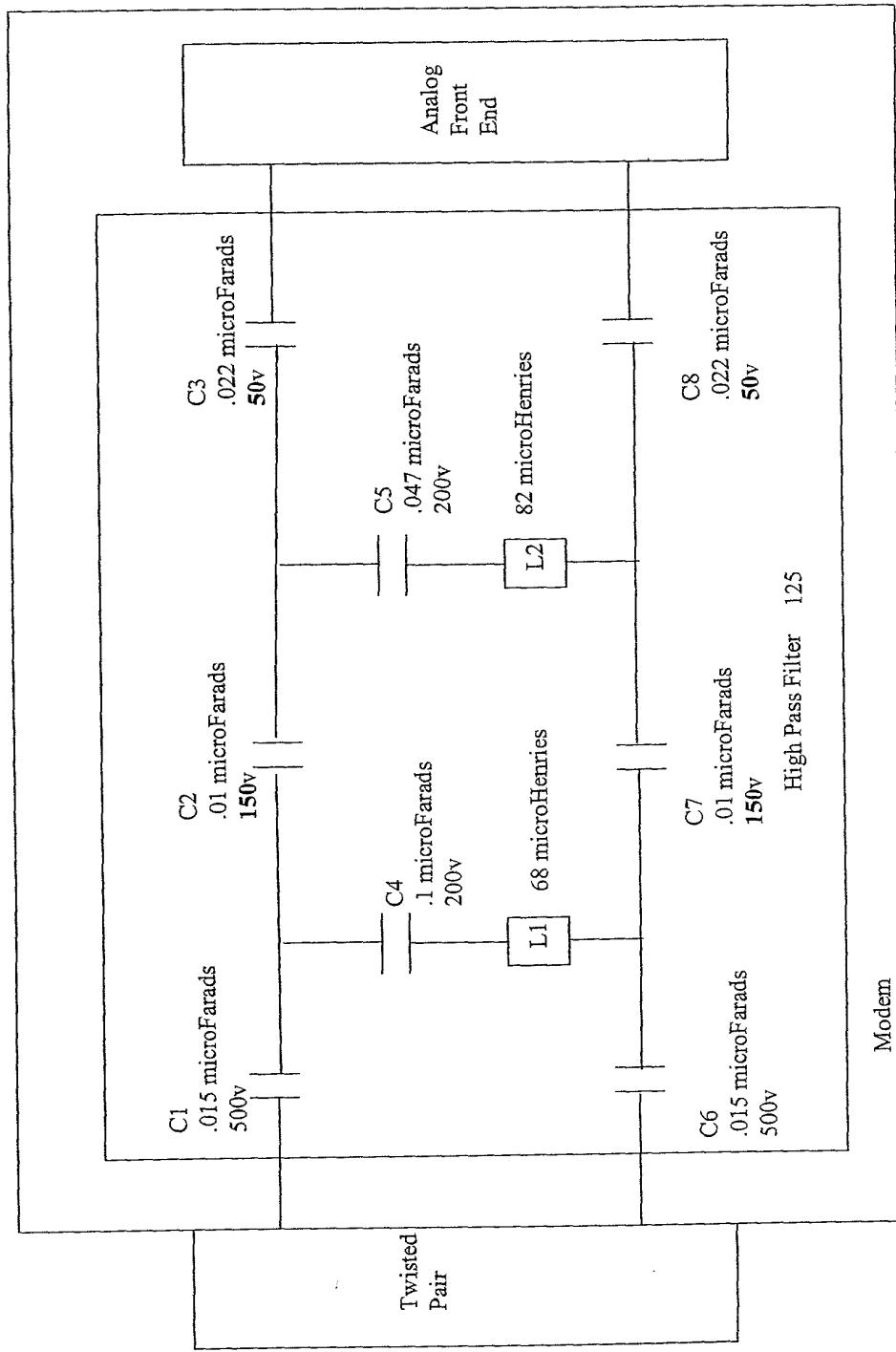


FIG. 12

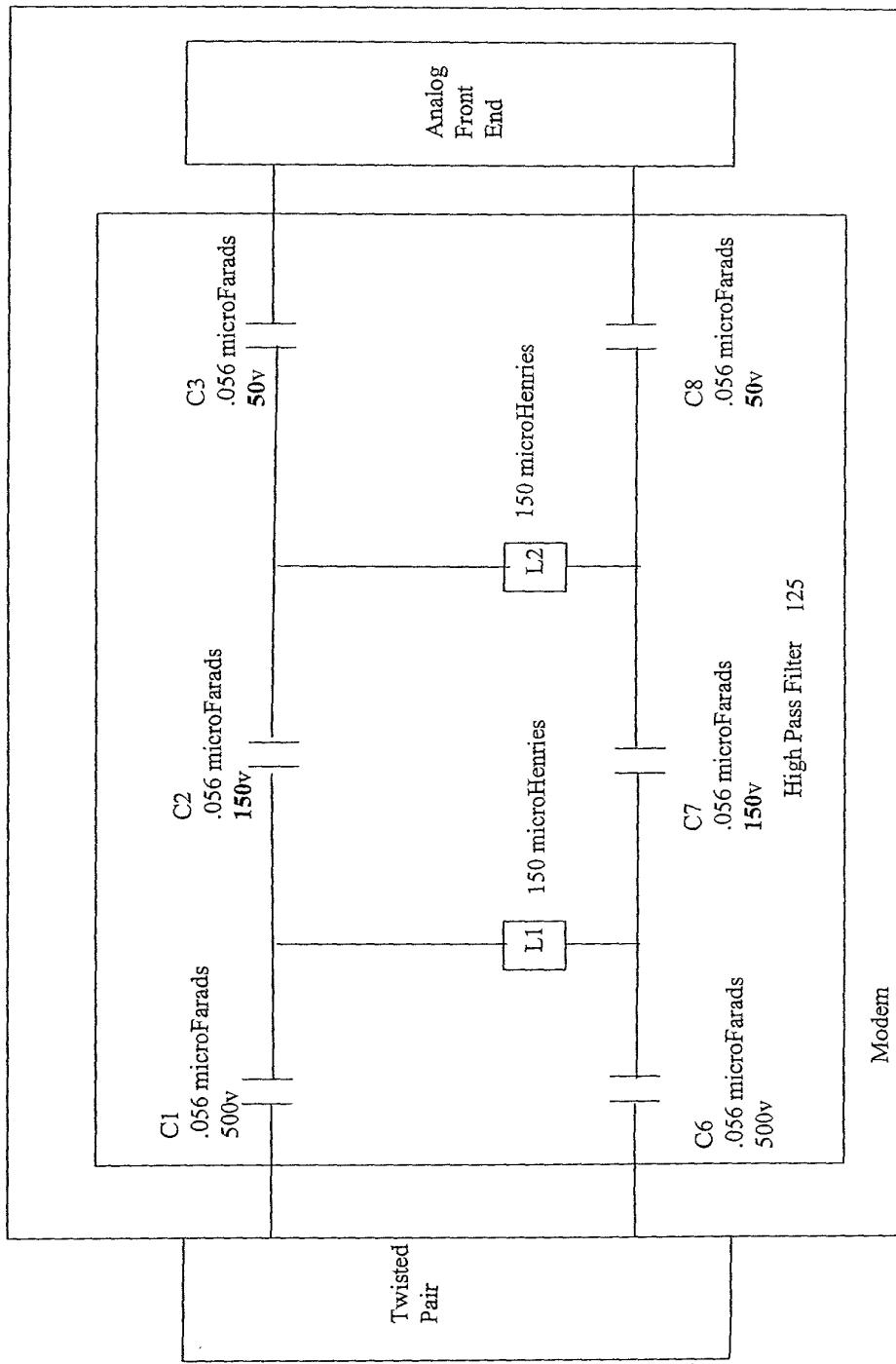


FIG.13

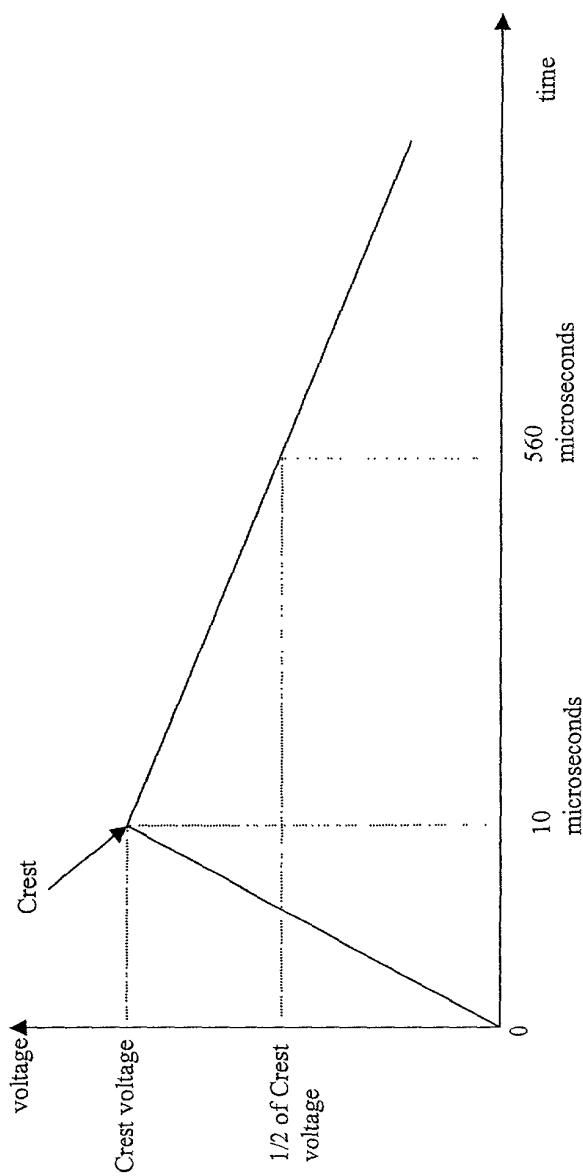


FIG. 14

FIG. 15

